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ANNOTATED CATALOG OF TYPE SPECIMENS IN  
THE MALACOLOGICAL COLLECTION OF  
THE DELAWARE MUSEUM OF NATURAL HISTORY.

GASTROPODA  
(PROSOBRANCHIA AND OPISTHOBRANCHIA)

Rüdiger Bieler<sup>1,2</sup> and Alison Bradford<sup>1</sup>

**ABSTRACT.** A brief outline of the history and sources of the malacological collection at the Delaware Museum of Natural History is given. All type material (as defined by ICZN Article 72) was separated from the main collection. This paper reviews and lists the type holdings of Recent prosobranch and opisthobranch gastropods. The type status of each specimen was studied by comparison with the original publications. A total of 191 type lots of 160 species-group taxa from 65 authors is recognized; 55 of these are holotypes or syntype lots. The majority of name-bearing types consists of marine caenogastropod prosobranchs. An annotated list of all type lots as well as an author index are given. The list of references contains all papers in which the taxa are first described and also other major publications based on the collection.

INTRODUCTION

The malacological collection of the Delaware Museum of Natural History (DMNH) with currently about 190,000 catalogued lots is one of the largest of its kind in the country. In 1982, then containing 135,000 catalogued lots, it was ranked eighth in size among the U.S. collections in a survey by Thompson (1982: 44).

The marine shell-bearing gastropods are the main strength of the collection (about 52% of total lots), followed by land and freshwater gastropods (27%), marine bivalves (16%), freshwater bivalves (4.5%),

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and miscellaneous other molluscan groups (0.5%). In addition to this material in dry lots, there is a small alcoholic collection. The dry collection is housed in steel cabinets and arranged in taxonomic order by families, largely following the traditional arrangement based on the Thiele (1929-1935), Wenz (1938-1944) and Zilch (1959-1960) monographs. It contains some fossil (mainly Tertiary) specimens, interfiled with the Recent material. There is no geographical specialization. At present, data for approximately 30% of the lots have been entered into a micro-computer-based relational database system (*dBase III+*, commercially available from Ashton-Tate).

The DMNH malacological collection, amassed during only 30 years (the museum was founded in 1959 and opened to the public in 1972), came from various sources. The main origin has been donations and purchases from private collectors and exchanges with other institutions. The large collection storage areas (13,000 square feet), designed with a holding capacity of 1.4 million lots, made it possible to absorb orphaned collections from other institutions as well as extensive material originating from expeditions and ecological studies. Additional deposited specimens were collected as part of research projects of DMNH staff and associates, or were placed here because of the publications associated with the museum (*Indo-Pacific Mollusca*, *The Nautilus*, *Delaware Museum of Natural History Monograph Series*, *Nemouria*).

In addition to the large original collection by DMNH's founder, John E. du Pont, major private collections were obtained, by donation or purchase, from the following individuals (3,000-100,000 specimens each): W. Andrews, C. Aguayo, H. Boswell, M. P. Breithaupt, W. J. Clench, T. Crow, W. E. Dodd, E. Doremus, L. Grantier, B. K. Harris, R. Jackson, H. G. Jewell, C. L. Kauffman, G. & M. Kline, N. W. Lermond, C. A. Long, P. M. Mikkelsen, J. E. Morrison, J. E. Norton, R. E. M. Ostheimer, W. Over, J. D. Parker, E. Quammen, C. L. Richardson, F. Schilling, H. L. Sears, M. & H. Schriner, D. Steger, M. L. Walton, and R. E. Winter. Also, significant collections (1,500-3,000 specimens each) came from: J. C. Alexander, J. & C. Bennett, A. Chadwick, H. Du Shane, W. M. Heilman, W. M. Ingram, J. W. Lippincott, C. V. MacCoy, H. & M. Minzak, B. J. Piech, B. Roth, G. M. Seymour, C. Weaver, and A. Westerfield.

Significant quantities of exchange material and donations were received from the Academy of Natural Sciences of Philadelphia (ANSP, Pennsylvania), the National Museum of Natural History (USNM, Washington, DC), and the Ohio State University Museum (Columbus); orphaned collections came from University of Kansas (Lawrence), Mystic Seaport Museum (Mystic, Connecticut), Portland Society of Natural

History (Portland, Maine), Stamford Museum (Stamford, Connecticut), and the Division of Historical and Cultural Affairs, State of Delaware. The museum holds one permanent loan, the eastern U.S. Unionidae collection of Stanford University (Stanford, California).

The type material (holo-, para-, syn-, lecto-, paralecto- and neotypes, as defined by ICZN Article 72) has recently been separated from the main collection. This allows us to comply with Recommendation 72G(4) of the International Code of Nomenclature (ICZN, 1985: 72): "Every institution in which name-bearing types are deposited should . . . publish lists of name-bearing types in its possession or custody." As can be expected from the collections of a relatively young museum, the DMNH type holdings are small when compared to other institutions. The type material can be sorted into two groups. The first comprises specimens that were in possession of the museum at the time of the original description of the respective taxon. This usually is material based on research by DMNH staff and associates, by outside scientists working on DMNH material or using DMNH as a repository, or it is material described in journals currently or in the past published by the museum. The second group consists of material that reached DMNH subsequent to the original publication date. For type specimens that have changed ownership several times a type catalog such as this may be the only means of locating the current repository.

It might come as a surprise that the DMNH holdings contain type lots of taxa described by Australian and New Zealand authors, such as W. O. Cernohorsky, B. C. Cotton, H. J. Finlay, C. Hedley, F. W. Hutton, T. Iredale, and A. W. B. Powell.

This is not a *critical catalog* in the sense that the current taxonomic status for the nominal taxa involved has not been researched in detail. However, the *type status* was critically evaluated by comparison with the original description and in strict application of the ICZN rules. Many specimens previously recognized as para- and syntypes because they were part of the original material of the describing author, were excluded from the type collection when the original description explicitly restricted the number or repository of types (ICZN Art. 72(b)(vi)). This type material "grey zone" most often originated from retained, but not cited, specimens in the collections of the original collector or author. In accordance with ICZN Article 73(b), DMNH specimens were recognized as syntypes in cases when the original author failed to designate a holotype and we were unable to locate a subsequent lectotype designation.

All recognized or suspected type specimens were measured. Specimens with an overall size larger than 3 mm were measured using calipers, smaller specimens with the aid of a dissecting microscope and calibrated

eye piece (accuracy  $\pm$  0.1 mm in both cases). "Height" (H) was defined as the largest dimension parallel to the columellar axis, and "width" (W) the largest dimension perpendicular to that axis. In cases when these measurements were meaningless or the shell axis was obscured (e.g., Caecidae, Patellidae), other dimensions are given and individually indicated. The new measurements not only provide additional information when dimensions were not given in the original publication, but also serve to evaluate identity of type material. Minor discrepancy between the original measurements and ours may reflect different techniques (e.g., measurements without reference to shell axis) or accuracy (e.g., original measurement by ruler instead of calipers). Large discrepancies, however, indicate either error in the original publication or, worse, a subsequent confusion of type material. In cases where the originally given dimensions differ from ours, they are noted in parentheses and quotes. In all other cases, the measurements agree, or there was no such information in the original description.

Reflecting the strength of the general collection, the majority of the DMNH type specimens, including most name-bearing types (holo-, lecto-, neotypes and syntypic series), belong to the shell-bearing Prosobranchia and Opisthobranchia (191 lots of 160 species-group taxa, all of them of Recent forms). Of these, 38 are recognized as holotypes, 61 as syntypes in 17 lots, and more than 350 as paratypes or paralectotypes in 134 lots.

The listings in this catalog are arranged as follows:

(1) new species-group name, (2) original generic (subgeneric) and/or species-level placement, (3) original status (e.g., "[as n. ssp.]"), (4) original author and short bibliographic reference, with figure reference to DMNH specimen(s), (5) number and kind of types, (6) DMNH collection catalog number, (7) locality data for specimen in type lot, taken from label and/or original description [discrepancies noted, metric conversion of depth data where originally missing]; in the case of paratypes, a note whether this location is the type locality, (8) dimensions as described above, (9) remarks, (10) family placement.

The 'Remarks' section provides a variety of information. In case the original publication does not indicate DMNH as type repository, the history of the lot as known to us is given (e.g., "ex T. L. McGinty, via D. Steger"). Other data include references to figures in publications other than the original, and recognized errors in the original publication.

The family placement is given in its originally published form, and often an updated family placement is added in square brackets (for prosobranch family-group taxa according to Ponder & Warén, 1988). The following listing of types is arranged in alphabetical order of species,

with Prosobranchia and Opisthobranchia listed separately. In addition, an index by author as well as complete bibliographic references are provided.

## TYPE CATALOG

### CLASS GASTROPODA SUBCLASS PROSOBRANCHIA

#### *abrolhosensis*, *Acmaea* (*Collisella*) [as n. sp.]

Petuch, 1979b: 513.

4 paratypes: DMNH 121797; south side of Santa Barbara Island, Abrolhos Archipelago, Bahia State, Brazil ( $19^{\circ}57'S$ ,  $38^{\circ}42'W$ ); type locality. Dimensions (greatest lengths): 20.9 [1 shell]; 21.4, 19.6, 18.8 [3 complete alcohol-preserved specimens] ("lengths 21 mm, 21 mm, 20 mm, 19 mm"). Patellidae [Acmaeidae].

#### *adamsianum*, *Vexillum* (*Costellaria*) [as n. sp.]

Cernohorsky, 1978: 64, fig. 9.

1 paratype: DMNH 118026; Keehi Lagoon, Oahu, Hawaiian Islands, 50 fathoms [91.5 m]; type locality. Dimensions: H= 9.0, W= 3.6 ("3.7"). Costellariidae.

#### *ahiparana*, *Turritella* (*Zeacolpus*) [as n. sp.]

Powell, 1927: 297.

6 paratypes: DMNH 027852; off Ahipara, Ninety Mile Beach, New Zealand, 23 fathoms [42.1 m]; type locality. Dimensions: (1) H= 17.4, W= 5.2; (2) H= 17.1, W= 4.7; (3) H= 17.0, W= 5.4; (4) H= 16.9, W= 4.8; (5) H= 16.2, W= 4.9; (6) H= 14.6, W= 4.1. Remarks: Ex J. H. Alexander. Turritellidae.

#### *allyni*, *Terebra* [as n. sp.]

Bratcher & R. D. Burch, 1970: 298.

1 paratype: DMNH 022421; California Academy of Sciences station 237792, east shore of Maria Madre Island, Tres Marias Group, Baja California, Mexico ( $21^{\circ}35'N$ ,  $106^{\circ}26'W$ ), 5-10 fathoms [9.1-18.3 m]; type locality. Dimensions: H= 28.4, W= 7.2. Terebridae.

#### *amosi*, *Metula* [as n. sp.]

Vanatta, 1913: 22.

2 syntypes: DMNH 024523; Panama. Dimensions: (1) H= 35.9, W= 11.8 [apex broken]; (2) H= 28.9, W= 10.9 [apex broken].

Remarks: Ex S. N. Rhoads, via ANSP 316700. Buccinidae.

***aphrodite*, *Conus* [as n. sp.]**

Petuch, 1979a: 11, figs. 34-35 (holotype).

Holotype: DMNH 126398; off Panglao, Bohol Island, Philippines, approximately 250 m. Dimensions: H= 20.8 ("21"), W= 11.3 ("11").

1 paratype: DMNH 126399; type locality. Dimensions: H= 13.9 ("13"), W= 7.3.

Conidae.

***arcas*, *Terebra (Strioterebrum)* [as n. sp.]**

Abbott, 1954: 40.

1 paratype: DMNH 104984; 35 miles E.N.E. of Arcas Cays, 17 fathoms [31.1 m] [or] 25 miles N.N.W. of Arcas Cays, sandy mud, 26 fathoms [47.6 m]; southern Campeche Bank, Mexico. Dimensions: H= 8.9, W= 2.5. Remarks: Ex D. Steger.

2 paratypes: DMNH 118028; off Arcas Cays, southern Campeche Bank, Mexico. Dimensions: (1) H= 7.4, W= 2.5; (2) H= 5.4, W= 2.0. Remarks: Ex D. Steger.

Terebridae.

***atkana*, *Littorina sitkana* [as n. var.]**

Dall, 1886: 211.

2 syntypes: DMNH 043607; Kyska Island, Alaska. Dimensions: (1) H= 16.0, W= 13.7 [with operculum]; (2) H= 16.0, W= 13.5. Remarks: Ex USNM. Littorinidae.

***aureola*, *Pyrene* [as n. sp.]**

Howard, F. B., 1963: 2.

1 paratype: DMNH 066821; Norse Beach, Punta Penasco, Sonora, Mexico (31°20'N, 113°38'W); type locality. Dimensions: H= 17.6, W= 11.0. Columbellidae.

***aurora*, *Columbarium (Peristarium)* [as n. sp.]**

Bayer, 1971: 180.

1 paratype: DMNH 153519; R/V 'Pillsbury' station P-1309, north-east of Fowey Light, Straits of Florida (25°40'N, 80°02'W), 247 m; type locality. Dimensions: H= 42.9 [apex missing], W= 11.0. Remarks: Ex Rosenstiel School of Marine and Atmospheric Sciences, University of Miami. Columbariidae [Turbinellidae].

***axelrodi*, *Conus* [as n. sp.]**

Walls, 1978: 1, fig. p. 5.

Holotype: DMNH 123127; Palawan, Philippines. Dimensions: H= 16.0, W= 8.7. Remarks: Figure of holotype (Walls, 1978: fig. p. 5 upper right) erroneously labeled "topotypic paratype." Also described by Walls (1979b: 183 ff.) without reference to earlier publication. Conidae.

***baileyi*, *Oliva* [as n. sp.]**

Petuch, 1979a: 10, figs. 18-19 (holotype).

Holotype: DMNH 126395; off Russell Island, Solomon Islands, 180 m. Dimensions: H= 30.3 ("30"), W= 14.6 ("8" [sic]).

1 paratype: DMNH 126396; type locality. Dimensions: H= 29.0 ("28"), W= 13.7. Remarks: Erroneously cited as plural "paratypes" in the original description. This is not the specimen figured as "paratype" by Petuch (1979a: 13, figs. 16, 17).

Olividae.

***barbarae*, *Brachycythara* [as n. sp.]**

Lyons, 1972: 4.

1 paratype: DMNH 047902; R/V 'Hourglass' station D, off Egmont Key, Florida (27°37'N, 83°58'W), 55 m; type locality. Dimensions: H= 3.2, W= 1.7.

1 paratype: DMNH 107553; type locality. Dimensions: H= 2.9, W= 1.5. Remarks: Ex D. Steger.

Turridae.

***barnardi*, *Fusivoluta* [as n. sp.]**

Rehder, 1969: 207, pl. 40 fig. 9, pl. 43 figs. 40-41.

Holotype: DMNH 010751; off Natal coast, South Africa, 120 fathoms [220 m]. Dimensions: H= 115.2, W= 34.6.

1 paratype: DMNH 010750; off mouth Tugela River, South Zululand, South Africa, 160-180 fathoms [293-329 m]. Dimensions: H= 96.5, W= 35.0. Remarks: "Early whorls and anterior end missing" (Rehder, 1969: 208).

Volutidae.

***bermudensis*, *Rissoina* [as n. sp.]**

Peile, 1926: 98.

2 paratypes: DMNH 135069; "Near Baeotia, St. Georges" [label], Bermuda. Dimensions: (1) H= 5.6, W= 2.4; (2) H= 5.2, W= 2.1. Remarks: Ex J. D. Parker. Rissoidae.

***berryi*, *Anachis* [as n. sp.]**

Shasky, 1970: 190.

2 paratypes: DMNH 040849; El Pulmo Reef, Baja California, Mexico ( $23^{\circ}26'N$ ,  $109^{\circ}25'W$ ), 1-3 m. Dimensions: (1) H= 9.0, W= 3.3; (2) H= 8.5, W= 3.2. Remarks: Ex D. Shasky. Columbellidae.

***betsyae*, *Hastula (Punctoterebra)* [as n. sp.]**

R. D. Burch, 1965: 243.

2 paratypes: DMNH 006001; off Honokohau, Maui, Hawaii ( $21^{\circ}04'N$ ,  $156^{\circ}38'W$ ), 20 feet [6.1 m]; type locality. Dimensions: (1) H= 29.7, W= 6.6; (2) H= 22.7, W= 5.9. 4 paratypes: DMNH 010141; locality data as above. Dimensions: (1) H= 35.7, W= 7.2; (2) H= 26.5, W= 5.6; (3) H= 23.1, W= 5.4; (4) H= 22.6, W= 5.3.

Remarks: Ex R. D. Burch collection no. 172. Terebridae.

***blanesi*, *Olivella* [as n. sp.]**

Ford, 1898: 66.

2 syntypes: DMNH 136363; Cardenas, Cuba. Dimensions: (1) H= 9.2, W= 4.2; (2) H= 6.3, W= 3.1. Remarks: Ex J. Parker. Olividae.

***boholensis*, *Conus* [as n. sp.]**

Petuch, 1979a: 12, figs. 20-21 (holotype).

Holotype: DMNH 126400; off Panglao, Bohol Island, Philippines, approximately 250 m. Dimensions: H= 37.7 ("38"), W= 17.3 [lip damaged] ("18").

2 paratypes: DMNH 126401; type locality. Dimensions: (1) H= 25.6 ("26"), W= 11.3; (2) H= 18.5 ("17"), W= 8.6.

Remarks: Holotype figured by Coomans et al. (1982: 62, fig. 250), as junior synonym of *Conus borneensis* Adams & Reeve, 1848. Conidae.

***boschi*, *Cymatium* [as n. sp.]**

Abbott & Lewis, 1970: 87, figs. 1-4.

Holotype: DMNH 022862; Al Masirah Island, Oman Protectorate, southeast Arabia. Dimensions: H= 75.0, W= 41.0. Cymatiidae [Ranellidae].

***boswellae*, *Pirenella* [as n. sp.]**

Barnard, 1963: 140.

Holotype: DMNH 011370; *ex pisce*, off Durban, South Africa. Dimensions: H= 53.2 ("52"), W= 19.8 ("19"). Remarks: Ex H. Boswell. Holotype figured by Barnard (1969: 650, figs. 25 a, b). Potamididae.

*boswellae*, *Volutocorbis* [as n. sp.]

Rehder, 1969: 202.

1 paratype: DMNH 019308; off Saint Sebastian Bay, South Africa, in 80-100 fathoms [146-183 m]. Dimensions: H= 24.7, W= 10.9 (juvenile). Volutidae.

*bouvetia*, *Margarella* [as n. sp.]

Powell, 1951: 97.

2 paratypes: DMNH 106921; R/V 'Discovery II' station 456, 1 mile east of Bouvet Island, 40-45 m; type locality. Dimensions: (1) H= 7.0, W= 7.8; (2) H= 5.4, W= 6.5; both with dried animals. Remarks: Ex A. W. Powell. Trochidae.

*brasiliiana*, *Borsonia* [as n. sp.]

Tippett, 1983: 136.

2 paratypes: DMNH 161061; R/V 'Oregon' station 4226, 200 miles north of Sao Luis, Brazil (00°18'N, 44°17'W), on the edge of the continental shelf in 150 fathoms [274.5 m]; type locality. Dimensions: (1) H= 11.1, W= 4.2; (2) H= 10.6, W= 4.0. Remarks: In the original description, longitude erroneously given as "004x17'W." Turridae.

*burgessi*, *Distorsio* [as n. sp.]

Lewis, 1972: 46.

1 paratype: DMNH 051956; Barber's Point, S.W. Oahu Island, Hawaii; type locality. Dimensions: H= 42.8, W= 28.8.

1 paratype: DMNH 093303; Haleiwa, Oahu, Hawaii. Dimensions: H= 60.5, W= 36.0. Remarks: Ex C. Weaver.

Cymatiidae [Ranellidae].

*clarkei*, *Fusivoluta* [as n. sp.]

Rehder, 1969: 206, pl. 40 fig. 8, pl. 43 fig. 37 (holotype), pl. 43, figs. 38, 39 (paratype DMNH 019307).

Holotype: DMNH 012833; off Joao Belo, District Gaza, Mozambique, 240 fathoms [439 m]. Dimensions: H= 96.7, W= 31.3.

2 paratypes: DMNH 019305, 80 km east of Inhaca Island, District Laurenço Marques, Mozambique. Dimensions: (1) H= 75.6, W= 26.9; (2) H= 74.3 ("74.5"), W= 25.7.

1 paratype: DMNH 019307; 92 km east of Inhaca Island, Mozambique. Dimensions: H= 79.8, W= 27.1.

Volutidae.

*cloveri*, *Conus* [as n. sp.]

Walls, 1978: 2, fig. p. 5 bottom left.

Holotype: DMNH 123128; harbor near Anse Bernard, Dakar, Senegal. Dimensions: H= 25.7, W= 13.3. Remarks: Also described by Walls (1979b: 338 ff.) without reference to earlier publication. Conidae.

*cloveriana*, *Lyria* [as n. sp.]

Weaver, 1963b: 31.

1 paratype: DMNH 010139; 20 miles from Tangalla, southern Ceylon, 50 feet [15.2 m]. Dimensions: H= 43.6, W= 18.0 ("17.3") [juvenile]. Remarks: Ex R. Jonklaas. Subsequently figured by Weaver & du Pont (1970: pl. 4 figs. M-N). Volutidae.

*conica*, *Acmaea* [as n. sp.]

Test, 1945: 92.

1 paratype: DMNH 023433; Point Fermin, San Pedro, California; same locality data as "type series." Dimensions: greatest length= 15.1, width= 11.7, height= 4.1. Remarks: Ex A. R. G. Test, via ANSP 181024. Author mentions a "type series" of 20 specimens in addition to numerous "paratypes." Only the California Academy of Sciences in San Francisco and the United States National Museum are originally listed as repositories. Acmaeidae.

*corticata*, *Acmaea* [as n. sp.]

Hutton, 1880: 89.

1 paralectotype: DMNH 023489; New Zealand. Dimensions: greatest length= 12.0, width= 9.5, height= 5.1. Remarks: Ex F. W. Hutton, via ANSP 50047. Powell (1979: 47), in the redescription of *Patelloidea corticata* (Hutton, 1880), refers to a "type of *corticata*" with a length of 14 mm and the type locality "Dunedin." This (or an earlier reference of this kind) qualifies as designation of lectotype (ICZN Art. 74(b)). Acmaeidae.

*cosmani*, *Chicoreus* [as n. sp.]

Abbott & C. J. Finlay, 1979: 159, fig. 8.

1 paratype: DMNH 028503; Discovery Bay, Jamaica, 35-100 feet [10.7-30.4 m]. Dimensions: H= 39.0, W= 18.5. Muricidae.

*crakei*, *Duplicaria* (*Duplicaria*) [as n. sp.]

R. D. Burch, 1965: 245.

2 paratypes: DMNH 006002; in fine sand at low tide on Cable Beach, Broome, Western Australia (18°00'S, 122°15'E). Di-

mensions: (1)  $H= 19.6$ ,  $W= 4.5$ ; (2)  $H= 16.8$ ,  $W= 4.1$ .

Remarks: Ex R. D. Burch collection no. 336. Terebridae.

*croasnieri*, *Cancilla scrobiculata* [as n. ssp.]

Cernohorsky, 1970: 95, fig. 1 (holotype).

Holotype: DMNH 022392; Point Noire, Congo, West Africa ( $4^{\circ}57'S$ ,  $11^{\circ}22'E$ ), 135 m. Dimensions:  $H= 73.1$ ,  $W= 18.5$ .

2 paratypes: DMNH 028221; Coast of Dahomey ( $6^{\circ}05'N$ ,  $2^{\circ}37'E$ ), West Africa; 150-200 m. Dimensions: (1)  $H= 71.0$  ("71.4"),  $W= 18.8$ ; (2)  $H= 56.4$ ,  $W= 14.6$ .

Mitridae.

*cuvierensis*, *Microvoluta* [as n. sp.]

H. J. Finlay, 1930: 242.

1 paratype: DMNH 012209; off Cuvier Island, Bay of Plenty, New Zealand, 38 fathoms [69.5 m]; type locality. Dimensions:  $H= 5.7$ ,  $W= 2.4$ . Volutomitridae.

*daisyae*, *Volutoconus hargreavesi* [as n. ssp.]

Weaver, 1967: 302, pl. 41 figs. 5-6 (holotype), fig. 7 (paratype DMNH 010557), figs. 8-9 (paratype DMNH 010142).

Holotype: DMNH 010022; southwest of North West Cape, central Western Australia ( $22^{\circ}00'S$ ,  $113^{\circ}45'E$ ), 80 fathoms [146 m]. Dimensions:  $H= 85.3$ ,  $W= 34.3$ .

1 paratype: DMNH 010557; Houtman Abrolhos Islands, southern Western Australia; 85 fathoms [155 m]. Dimensions:  $H= 106.7$  ("96.0" [sic]),  $W= 42.6$  ("39.0"). Remarks: Ex H. Boswell.

1 paratype 010142; off Point Cloates, central Western Australia, 118 fathoms [216 m]. Dimensions:  $H= 85.2$  ("85.5"),  $W= 34.2$  ("35.0"). Remarks: Ex C. Weaver.

Volutidae.

*dalli*, *Latiaxis (Babelomurex)* [as n. sp.]

Emerson & D'Attilio, 1963: 4.

2 paratypes: DMNH 105930; locality description: "southwest of Egmont Key, Florida, 220-230 fathoms [403-421 m]"; Steger collection label: "from 120 fathoms [220 m], about 200 miles SW of St. Petersburg, Fla." Dimensions: (1)  $H= 35.7$ ,  $W= 37.2$  (incl. spines); (2)  $H= 34.5$ ,  $W= 32.2$  (incl. spines) [with opercula]. Remarks: Ex D. Steger. Coralliophilidae [Murecidiae].

*dalliana*, *Acmaea* [as n. sp.]

Pilsbry, 1891: 13.

1 paratype: DMNH 023404; La Libertad, Sonora, Mexico. Dimensions: greatest length= 39.3, width= 27.0, height= 8.0. Remarks: Ex H. N. Lowe, via ANSP 167967. This locality not listed in original description. Acmaeidae.

***dampieria*, *Amoria (Amoria)* [as n. sp.]**

Weaver, 1960: 1, 3.

1 paratype: DMNH 010140; 25 miles off Bezout Island, Dampier Archipelago, Western Australia, 25 fathoms [45.8 m]. Dimensions: H= 33.2 ("33.3"), W= 15.2 ("15.0"). Remarks: Ex C. Weaver. Originally introduced in *Hawaiian Shell News* by Weaver (1960: 1, 3) when referring to "*Amoria (Amoria) dampieria* Iredale, 1914, nomen nudum [sic]," with figure and short description. Redescribed by Weaver (1963a: 28). DMNH paratype figured and listed by Weaver (1963a: pl. 5, two center figures; table 1, "paratype #2"). Also figured by Weaver & duPont (1970: pl. 63 figs. C-D). Volutidae.

***darwini*, *Cancellaria* [as n. sp.]**

Petit, 1970: 85.

1 paratype: DMNH 027196; south of Academy Bay, Isla Santa Cruz, Galápagos Islands, 170-200 m; type locality. Dimensions: H= 17.6, W= 10.1. Remarks: Ex R. E. Petit. Cancellariidae.

***delli*, *Penion benthicola* [as n. ssp.]**

Powell, 1971: 222.

1 paratype: DMNH 026798; off Aldermen Islands, northern New Zealand, 350 fathoms [640.5 m]. Dimensions: H= 68.4, W= 29.3. Remarks: Ex A. W. Powell. Buccinidae.

***dispar*, *Neritina* [as n. sp.]**

Pease, 1867: 285.

6 syntypes: DMNH 153352; Rarotonga, Cook Islands. Dimensions (heights): 7.2, 6.8, 6.8, 6.6, 6.3, 4.5 (with opercula). Remarks: Ex N. W. Lermond. Neritidae.

***disparilis*, *Volutocorbis* [as n. sp.]**

Rehder, 1969: 203, pl. 41 figs. 20-21.

3 paratypes: DMNH 010760; off Agulhas Bank, South Africa, 300 fathoms [549 m]. Dimensions: (1) H= 31.5, W= 17.1 ("17.4"); (2) H= 30.9, W= 13.5; (3) H= 30.2, W= 13.9 ("14.0"). Remarks: Specimens in DMNH 10760 match the

original description and measurements but do not fully agree with the original figures (Rehder, 1969: pl. 41 figs. 20-21). An additional specimen (DMNH 10761), figured by Weaver & duPont (1970: pl. 3 figs. N-O) and cited as "paratype," is from the type locality but does not qualify as type material because it was not included in the original description. Volutidae.

*donmoorei*, *Caecum* [as n. sp.]

Mitchell-Tapping, 1979: 105, figs. 29, 30.

Holotype: DMNH 119521; Sprat Bay, Water Island, United States Virgin Islands, 5 m. Dimensions (greatest length): 2.2 ("1.4" [sic]). Remarks: According to the original description (Mitchell-Tapping, 1979: 105), the holotype was "deposited in 1977 in the Delaware Museum of Natural History #119521." The DMNH specimen matches the published figure, but measures 2.2 mm overall length instead of the dimension given in the text ("1.4 mm") and those deduced from the scale accompanying the published figure (also 1.4 mm). Caecidae.

*dorothyae*, *Terebra* [as n. sp.]

Bratcher & R. D. Burch, 1970: 297.

1 paratype: DMNH 022422; Allan Hancock Foundation station 770-38, 7-11 fathoms [12.8-20.1 m] on black sand off San Jose Point, Guatemala ( $13^{\circ}53'N$ ,  $91^{\circ}09'W$ ). Dimensions: H= 20.9, W= 5.6. Remarks: DMNH number erroneously given as "22421" in original publication. Terebridae.

*duponti*, *Festilyria* [as n. sp.]

Weaver, 1968: 444, pl. 60 figs. 1-2.

Holotype: DMNH 013706; off Boa Paz, Mozambique, 40 fathoms [73 m]. Dimensions: H= 124.4, W= 56.5. Volutidae.

*eccentricus*, *Zelippistes* [as n. sp.]

Petuch, 1979a: 5, figs. 7-9.

Holotype: DMNH 126391; China Strait, off Samarai Island, Eastern Papua, Papua New Guinea, 250 m. Dimensions: H= 11.0 ("width 11 mm"), W= 17.9 ("length 18 mm"). Remarks: Erroneously cited as "DMNH No. 123691" in original description. Trichotropidae [Capulidae].

*echinophilus*, *Africonus* [as n. sp.]

Petuch, 1975: 180.

1 paratype: DMNH 121795; N'Gor, Cape Verde, Senegal, West

Africa (14°43'N, 17°33'W); type locality. Dimensions: H= 10.9, W= 6.1. Conidae.

*ecphoroides*, *Fulgurofusus* (*Fulgurofusus*) [as n. sp.]

Harasewych, 1983a: 20, fig. 28.

1 paratype: DMNH 153515; R/V 'Oregon' station 4226, 180 miles N.E. of Tijoca, Pará, Brazil (0°18'N, 44°17'W), 150 fathoms [274 m]; type locality. Dimensions: H= 15.9 ("16"), W= 6.1. Turbinellidae.

*electra*, *Columbarium* (*Peristarium*) [as n. sp.]

Bayer, 1971: 176.

1 paratype: DMNH 153517; R/V 'Gerda' station G-289, S.S.E. of Key West, Straits of Florida, (24°11'N, 81°36'W), 594-604 m; type locality. Dimensions: H= 16.2, W= 4.0. Remarks: Ex Rosenstiel School of Marine and Atmospheric Sciences, University of Miami. Protoconch of paratype illustrated by Harasewych (1983a: 28, fig. 41). Columbariidae [Turbinellidae].

*elegans*, *Vitrinella* (*Striovitrinella*) [as n. sp.]

Olsson & McGinty, 1958: 31.

1 paratype: DMNH 104277; Bocas Island, Panama [Caribbean]. Dimensions: H= 3.5, W= 1.6. Remarks: Ex D. Steger. Vitrinellidae.

*exquisita*, *Pseudocypraea* [as n. sp.]

Petuch, 1979a: 6, figs. 5, 6.

Holotype: DMNH 126392; 250 m depth off Panglao, Bohol Island, Philippines. Dimensions: H= 8.8 ("9"), W= 5.4 ("5"). Ovulidae.

*fayae*, *Anachis* (*?Costanachis*) [as n. sp.]

Keen, 1971: 579.

2 paratypes: DMNH 047037; Playa Caracol, Nuevo Guayamas, Sonora, Mexico; type locality. Dimensions: (1) H= 7.6, W= 2.9; (2) H= 6.6, W= 2.5. Remarks: Ex F. B. Howard, via Santa Barbara Museum. The original description mentions a holotype and "[a]bout 200 specimens." Three illustrations (Keen, 1971: 953, fig. 1178) are labeled "holotype," "paratype," and "hypotype," the two former from the type locality, the last from San Marcos, California. Columbellidae.

*finlayi*, *Murex* (*Murex*) [as n. sp.]

Clench, 1955: 1.

1 paratype: DMNH 105880; Matanzas Bay, Cuba, 200 fathoms [366 m]; type locality, but holotype is from "100 fathoms [183 m]." Dimensions: H= 74.7, W (apertural aspect, incl. spines)= 44.7; with operculum. Remarks: Ex C. J. Finlay, via D. Steger. Muricidae.

*finlayi*, *Neritopsis* [as n. sp.]

Hoerle, 1974: 104.

1 paratype: DMNH 099360; Banes Sands, Piñar del Rio Province, Cuba. Dimensions: H= 18.4, W= 17.3. Neritopsidae.

*floridana*, *Stenacme* [as n. sp.]

Pilsbry, 1945: 114.

1 paratype: DMNH 103823; Lake Worth, Boynton Beach, Florida. Dimensions: H= 8.0, W= 4.9. Remarks: Ex T. L. McGinty, via D. Steger. Described as a pulmonate in the nominal family Stenacmidae; the species was subsequently recognized as a member of the family Epitonidae (Robertson & Oyama, 1958: 68-69).

*floridanus*, *Microdochus* [as n. sp.]

Rehder, 1943: 193.

70+ paratypes: DMNH 023747; Missouri Key, Florida. Dimensions: heights from 1.6 to 2.5 mm. Remarks: Ex B. R. Bales, via ANSP 220264. Rissoidae [Elachisinae].

*fragilissimus*, *Conus* [as n. sp.]

Petuch, 1979a: 14, figs. 22-23 (holotype), figs. 24-25 (paratype DMNH 126403).

Holotype: DMNH 126402; off south coast of Harmil Island, Dahlak Archipelago, Eritrea Province, Ethiopia, Red Sea, 3 m. Dimensions: H= 34.0 ("30"), W= 15.6 ("12").

3 paratypes: DMNH 126403; type locality. Dimensions: (1) H= 30.2, W= 13.5 (figured); (2) H= 28.4, W= 12.8; (3) H= 26.8, W= 13.5 ("Lengths 34 mm, 31 mm, 26 mm").

Conidae.

*gaylordi*, *Olivella gracilis* [as n. var.]

Ford, 1895: 104.

2 syntypes: DMNH 024743; Gulf of California. Dimensions: (1) H= 9.9, W= 3.9; (2) H= 8.5, W= 3.3. Remarks: Ex J. Ford, via ANSP 316716. Olividae.

*germonae*, *Tractolira* [as n. sp.]

Harasewych, 1987: 3.

2 paratypes: DMNH 169441; R/V 'Isla Orcada' cruise 575, station 75, E.N.E. of Zavadovski Island, South Sandwich Islands ( $56^{\circ}03.5'S$ ,  $26^{\circ}58.3'W$ ), 2128-2161 m. Dimensions: (1) H= 48.7, W= 19.6; (2) H= 41.6, W= 16.6. Remarks: Both specimens alcohol-preserved. Volutidae.

***girardi*, *Cerodrillia* [as n. sp.]**

Lyons, 1972: 3.

1 paratype: DMNH 047901; R/V 'Hourglass' station D, off Egmont Key, Florida ( $27^{\circ}37'N$ ,  $83^{\circ}58'W$ ), 55 m; type locality. Dimensions: H= 8.0, W= 3.5. Turridae.

***gracilior*, *Benthovoluta* [as n. sp.]**

Rehder, 1967: 185.

1 paratype: DMNH 015456; U.S.B.F. 'Albatross I' station 5423, off Cagayan Islands, northern Sulu Sea, Philippines ( $9^{\circ}38'30''N$ ,  $121^{\circ}11'E$ ), 508 fathoms [930 m]. Dimensions: H= 49.9, W= 12.8. Remarks: Ex USNM 238408. Volutidae [Turbinellidae].

***greegori*, *Cypraea cruenta* [as n. var.]**

Ford, 1893: 112.

1 syntype: DMNH 043613; no locality given. Dimensions: greatest length= 24.2, width= 18.3. Remarks: Ex USNM (from I. Greegor, via J. Ford). Cypraeidae.

***guesti*, *Natica* (*Natica*) [as n. sp.]**

Harasewych & Jensen, 1984: 99, figs. 8, 10.

7 paratypes: DMNH 164500; 2.5 miles off Castle Roads, South Shore, Bermuda, Lightbourn-Guest 'Northstar' expeditions; in traps set in 347 m. Remarks: Lot contains 7 paratypes, largest (H= 26.5, W= 27.0) illustrated in original fig. 8, plus SEM stub with mounted shell apex shown in fig. 10.

1 [0] paratype: DMNH 096986; 2.5 miles off Castle Roads, South Shore, Bermuda, Lightbourn-Guest 'Northstar' expeditions; in traps set in 402 m. Remarks: Cited in original description (1984: 100); not located.

Naticidae.

***guesti*, *Pterynotus* (*Pterynotus*) [as n. sp.]**

Harasewych & Jensen, 1979: 3, figs. 6, 14.

Holotype: DMNH 122258; E.S.E. of Key West, Florida, 275 m. Dimensions: H= 28.6. Muricidae.

***habei*, *Assiminea habei* [as n. sp.]**

Abbott, 1958b: 251.

2 paratypes: DMNH 025311; estuary, 2 miles south of Tanauan, Leyte Island, Philippines; type locality. Dimensions: (1)  $H= 3.8$ ,  $W= 2.5$ ; (2)  $H= 3.6$ ,  $W= 2.4$ . Remarks: Ex R. T. Abbott, via ANSP 193366. Assimineidae.

***habei*, *Distorsio constricta* [as n. ssp.]**

Lewis, 1972: 38.

1 paratype: DMNH 050943; Tosa Bay, Shikoku, Japan; type locality. Dimensions:  $H= 50.6$ ,  $W= 29.0$ . Cymatiidae [Ranellidae].

***hancocki*, *Terebra* [as n. sp.]**

Bratcher & R. D. Burch, 1970: 299.

1 paratype: DMNH 051367; off La Libertad, Ecuador ( $2^{\circ}08'S$ ,  $81^{\circ}00'W$ ); type locality. Dimensions:  $H= 27.4$ ,  $W= 7.8$ . Terebridae.

***harrisae*, *Columbarium* [as n. sp.]**

Harasewych, 1983b: 28.

1 paratype: DMNH 153524; east of Lady Musgrave Island, Queensland, Australia, 140 fathoms [256 m]. Dimensions:  $H= 99.2$  ("99"),  $W= 29.5$ . Remarks: With operculum. Turbinellidae.

***haysae*, *Thais floridana* [as n. ssp.]**

Clench, 1927: 6.

2 paratypes: DMNH 060612; Grand Bayou, Mississippi Delta, Louisiana; type locality. Dimensions: (1)  $H= 84.3$ ,  $W= 51.8$ ; (2)  $H= 78.1$ ,  $W= 46.3$ .

2 paratypes: DMNH 152981; type locality. Dimensions: (1)  $H= 75.7$ ,  $W= 44.3$ ; (2)  $H= 66.5$ ,  $W= 44.4$ .

Remarks: According to the original description, an unspecified number of paratypes was originally deposited in the collections of Museum of Comparative Zoology (Cambridge, MA), ANSP, and Museum of Zoology, University of Michigan. DMNH collection contains specimens labelled "paratypes" ex E. Doremus (DMNH 060612) and ex N. W. Lermond (DMNH 152981).

Muricidae.

***hesperina*, *Blasicrura coxeni* [as n. ssp.]**

Schilder & Summers, 1963: 68.

1 paratype: DMNH 121541; Talasea, New Britain, Australia; type locality. Dimensions: greatest length= 14.4, width= 7.9. Remarks: Ex R. Summers. Cypraeidae.

*hoffmeyeri*, *Terebra (Strioterebrum)* [as n. sp.]

Abbott, 1952: 78.

1 paratype: DMNH 024990; Manila Bay, Luzon Island, Philippines; type locality. Dimensions: H= 19.8, W= 4.8. Remarks: Ex E. M. Wistar, via ANSP 234286. Terebridae.

*huttonii*, *Trochus (Canthiridus)* [sic, error for *Cantharidus*] [as n. sp.]

E. A. Smith, 1876: 558.

2 syntypes: DMNH 136368; New Zealand. Dimensions: (1) H= 11.4, W= 10.5; (2) H= 9.1, W= 9.8. Remarks: Both with dried animals. Trochidae.

*inglei*, *Oceanida* [as n. sp.]

Lyons, 1978: 543.

1 paratype: DMNH 121798; off St. Augustine, St. Johns County, Florida, 38 m. Dimensions: H= 2.2, W= 0.9. Eulimidae.

*johnstonei*, *Melongena corona* [as n. ssp.]

Clench &amp; Turner, 1956: 178.

1 paratype: DMNH 126416; Little Lagoon, Gulf Shores, Alabama; type locality. Dimensions: H= 82.5, W= 48.3.

1 paratype: DMNH 186770; type locality. Dimensions: H= 82.0, W= 49.6.

5 paratypes: DMNH 072197; type locality.

2 paratypes: DMNH 092770; type locality.

Remarks: According to the original description, an unspecified number of paratypes is said to be in several institutional and private collections. DMNH collection contains specimens labelled "paratypes" ex H.I. Johnstone (DMNH 126416, 186770), ex G. &amp; M. Kline (DMNH 072197) and ex H. &amp; M. Minzak (DMNH 092770). Melongenidae [Buccinidae].

*kaicherae*, *Vexillum (Costellaria)* [as n. sp.]

Petuch, 1979b: 523.

2 paratypes: DMNH 121796; south end of Guaratibas Reefs, Abrolhos reef complex, Bahia State, Brazil (17°25'S, 39°08'W), 1 m; type locality. Dimensions: (1) H= 9.1 ("9"), W= 3.1; (2) H= 8.5 ("9"), W= 3.1. Costellariidae.

*kellneri*, *Aulica* [as n. sp.]

Iredale, 1957: 91.

1 paratype: DMNH 010032; Arnhem Land, Northern Territory, Australia; type locality. Dimensions: H= 65.5, W= 34.5. Remarks: Ex C. Weaver. Volutidae.

*kermadecensis*, *Haurakia* [as n. sp.]

Oliver, 1915: 518.

3 paratypes: DMNH 025359; off Sunday Island, Kermadec Islands; type locality. Dimensions: (1)  $H= 1.8$ ,  $W= 0.9$ ; (2)  $H= 1.6$ ,  $W= 0.8$ ; (3)  $H= 1.5$ ,  $W= 0.8$ . Remarks: Ex R. S. Bell, via ANSP 257017. Rissoidae.

*kerstitchi*, *Conus* [as n. sp.]

Walls, 1978: 2, fig. p. 6.

Holotype: DMNH 123130; Nayarit, off Isla Tres Marias (between Isla San Juanito and Isla Maria Madre), Mexico. Dimensions:  $H= 31.5$  ("31.8"),  $W= 15.9$ . Remarks: Also described by Walls (1979a: 615 ff.) without reference to earlier publication, with a poor figure of the holotype on p. 618. Conidae.

*kingae*, *Xenoturris* [as n. sp.]

Powell, 1964: 325 [= p. 22-965].

2 paratypes: DMNH 010138; Waikiki, Oahu, Hawaiian Islands, 100 feet [30.4 m]. Dimensions: (1)  $H= 18.4$ ,  $W= 7.0$ ; (2)  $H= 15.6$ ,  $W= 5.7$ . Remarks: Ex C. N. Cate. Original description lists Waikiki material in D. Thaanum collection. Turridae.

*koto*, *Lamellaria* [as n. sp.]

Schwengel, 1944: 17.

1 syntype: DMNH 024084; Bra[i]denton Beach, Florida. Dimensions:  $H= 16.8$ ,  $W= 14.0$ . Remarks: Ex J. S. Schwengel, via ANSP 254013.

1 syntype: DMNH 139447; Bra[i]denton Beach, Florida. Dimensions:  $H= 17.6$ ,  $W= 14.0$ . Remarks: Ex J. Finlay.

Lamellariidae.

*kurzi*, *Guildfordia* [as n. sp.]

Petuch, 1979a: 2, figs. 1-2 (holotype).

Holotype: DMNH 126389; off Balicasag, Bohol Island, Philippines, 300 m. Dimensions:  $H= 22.0$ ,  $W$  (incl. spines)= 48.0 ("length 49 mm, width 47 mm"). Remarks: With operculum.

4 paratypes: DMNH 126390; type locality. Dimensions:  $W$  (measured incl. spines)= 49.5, 48.4, 46.5, 42.2. Remarks: With opercula.

Turbinidae.

*kurzi*, *Morum* (*Oniscidia*) [as n. sp.]

Petuch, 1979: 7, figs. 10-13.

Holotype: DMNH 126393; off Panglao, Bohol Island, Philippines,

250 m. Dimensions: H= 22.4 ("23"), W= 15.2 ("15").  
 Cassidae [Harpidae].

*lahainaensis*, *Volva (Phenacovolva)* [as n. sp.]

Cate, C., 1969: 365.

2 paratypes: DMNH 041616; off the southwest shore of the Hawaiian Island of Maui, "Lahaina Roads" between Lanai and Maui ( $20^{\circ}52'N$ ,  $156^{\circ}41'E$ ), on black coral, 185 feet [56.4 m]; type locality. Dimensions (greatest length and width): (1) 27.6, 8.5; (2) 14.5, 3.8 (juvenile, "expelled from the large shell during cleaning" according to label). Remarks: Ex C. N. Cate. Ovulidae.

*langi*, *Thais (Thaisella)* [as n. sp.]

Clench & Turner, 1948: 1.

6 paratypes: DMNH 068665; Lohito Bay, Angola, Africa; type locality. Dimensions: (1) H= 47.8, W= 34.1; (2) H= 47.5, W= 35.4; (3) H= 47.0, W= 35.0; (4) H= 44.1, W= 33.0; (5) H= 42.3, W= 30.6; (6) H= 39.9, W= 32.0. Remarks: Ex G. & M. Kline. With opercula. Muricidae.

*lenoreae*, *Phenacovolva (Subsimnia)* [as n. sp.]

Cardin & Walls, 1980: 1, fig. p. 2.

Holotype: DMNH 157331; Isla Gobernador, Perlas Islands, Panama (Pacific coast). Dimensions: H= 16.6 ("16.5"), W= 7.3. Ovulidae.

*lightbourni*, *Conus (Floraconus)* [as n. sp.]

Petuch, 1986: 16, figs. 1-2 (holotype).

Holotype: DMNH 134938; 1.5 miles (2.5 km) due south of Castle Island, Bermuda, from 180 fathoms [translates to 329.4 m, not "497 m" as given in original description]. Dimensions: H = "35", W = "16".

3 paratypes: DMNH 134939; type locality. Dimensions: (1) H= 47.8, W= 21.9; (2) H= 46.9, W= 22.0; (3) H= 39.7, W= 17.8; ("lengths 26.0 mm [sic]-47.7 mm").

Remarks: Holotype was listed in original description as deposited in DMNH 134938, but has not been received. The original publication mentions five additional paratypes ("lengths 22.4-44 mm") in the collection of Mr. J. R. H. Lightbourn, Bermuda. In an attempt to trace the missing holotype and to explain the mismatch of the DMNH paratypes with the original description, Mr. Lightbourn's material was re-examined by us. It consists of four specimens. Three of these

are apparently part of the paratype series: (1) H= 36.7, W= 17.5 [lip damaged]; (2) H= 36.5, W= 17.2 [lip damaged]; (3) H= 34.0, W= 15.9. A fourth, much larger, specimen (H= 50.5, W= 22.0) was presumably added later. None of the specimens studied matches the original illustration of the holotype or the figure given by Röckel (1987: no. 78 Suppl. [581]) as of a DMNH paratype ("45×19.5 mm"). Conidae.

***lightbourni*, *Fusinus* [as n. sp.]**

Snyder, 1984: 28, figs. 1-2 (holotype), fig. 3 (paratype DMNH 154462).

Holotype: DMNH 154461; crabbed specimen from fish pot in 100-120 fathoms [183-220 m] taken 1.5 miles south of Gurnet Rock, South Shore of Bermuda. Dimensions: H= 60.9 ("61"), W= 20.5.

3 paratypes: DMNH 154462; type locality, but "depths down to 200 fms." [366 m]. Dimensions: (1 [figured]) H= 66.4 ("66"); (2) H= 60.6 ("61"); (3) H= 45.8 ("46").

Fasciolariidae [Buccinidae].

***lightbourni*, *Pterynotus* (*Pterynotus*) [as n. sp.]**

Harasewych & Jensen, 1979: 8, fig. 7.

Holotype: DMNH 122259; off St. David's, Bermuda, 275-600 m. Dimensions: H= 33.8. Muricidae.

***lyalliana*, *Rissoia* (*Alvania*) *plicata* [as n. var.]**

Suter, 1898: 6.

1 paratype: DMNH 135066; Lyall Bay, near Wellington, New Zealand; type locality. Dimensions: H= 2.5, W= 1.05. Remarks: Ex J. D. Parker. Rissoidae.

***macleani*, *Calliostoma* [as n. sp.]**

Shasky & Campbell, 1964: 117.

1 paratype: DMNH 040850; N.W. side of Ensenada Lalo, Guaymas, Sonora, Mexico, 30-45 feet [9.1-13.7 m]. Dimensions: H= 10.1, W= 9.0. Remarks: Ex D. Shasky. Trochidae.

***macleani*, *Coralliophila* [as n. sp.]**

Shasky, 1970: 189.

2 paratypes: DMNH 040846; Saladita Bay, Guaymas, Sonora, Mexico (27°53'15"N, 110°59'W), 3-4 m, on the bases of white gorgonid sea whips; type locality. Dimensions: H= 10.9, W= 8.1. Remarks: Ex D. Shasky. Coralliophilidae [Muricidae].

***macquariensis*, *Trophon* [as n. sp.]**

Powell, 1957: 143.

3 paratypes: DMNH 106911; B.A.N.Z.A.R.E. station 83, off Lusitania Bay, Macquarie Island, 69 m; type locality. Dimensions: (1) H= 22.7, W= 10.6; (2) H= 19.8, W= 11.0; (3) H= 16.4, W= 9.0. Remarks: Ex A. W. Powell. Muricidae.

**major**, *Buccinum pemphigus* [as n. var.]

Dall, 1919: 325.

1 syntype: DMNH 043618; U.S. Fish Commission ('Albatross') station 3643, in the western part of Bering Sea, S.E. of Kamchatka, in 100 fathoms [183 m]. Dimensions: H= 65.5, W= 34.7. Remarks: Ex USNM. Buccinidae.

**marmosa**, *Olivella minuta* [as n. ssp.]

Olsson & McGinty, 1958: 38.

1 paratype: DMNH 104276; Bocas Island, Bocal del Toro, Panama, Caribbean; type locality. Dimensions: H= 6.0, W= 2.7. Remarks: Ex T. L. McGinty, via D. Steger. Olividae.

**martini**, *Latirus* [as n. sp.]

Snyder, 1988: 54, fig. 2.

1 paratype: DMNH 169442; north coast, Roatan Island, Honduras, 15-20 feet [4.6-6.1 m]. Dimensions: H= 23.8, W= 11.9. Fasciolariidae [Buccinidae].

**maryleeae**, *Hastula* (*Hastula*) [as n. sp.]

R. D. Burch, 1965: 242.

2 paratypes: DMNH 006003; in sand at low tide, Surfside Beach, Freeport, Texas (28°57'N, 95°38'W). Dimensions: (1) H= 21.6, W= 4.7; (2) H= 15.8, W= 4.1. Remarks: Ex R. D. Burch collection no. 023. Terebridae.

**masirana**, *Persicula* [as n. sp.]

Roth & Petit, 1972: 80, figs. 1, 2.

Holotype: DMNH 051327; Ras Jidufah (local name: Monument Beach) at northeast tip of Masirah Island (21°N, 59°E), Arabian Sea, off the coast of the Sultanate Muscat and Oman. Dimensions: H= 9.8 ("10.0"), W= 6.9 ("7.2"). Marginellidae.

**mauiensis**, *Cypraea* [as n. sp.]

Burgess, 1967: 6.

2 paratypes: DMNH 048221; reef at Olowalu, Maui Island, Hawaii (20°48.5'N, 156°37.3'W); type locality. Dimensions [greatest lengths]: (1) 13.9; (2) 13.4. Remarks: Ex C. S. Weaver. Cypraeidae.

*mazatlanica*, *Ruthia* [as n. sp.]

Shasky, 1970: 192.

1 paratype: DMNH 040848; east side of Chivos Island, Mazatlan, Sinaloa, Mexico. Dimensions:  $H= 7.8$ ,  $W= 2.6$ . Remarks: Ex D. Shasky. Columbellidae.*mcgintyi*, *Eubela* [as n. sp.]

Schwengel, 1943: 76.

1 paratype: DMNH 108007; off Lake Worth, Palm Beach County, Florida, 400-500 feet [122-152 m, label] or 80 fathoms [146.4 m, description]; type locality. Dimensions:  $H= 6.4$ ,  $W= 2.4$ . Remarks: Ex T. L. McGinty, via D. Steger. Turridae.*mendozana*, *Strombina* (*Cotonopsis*) [as n. sp.]

Shasky, 1970: 194.

1 paratype: DMNH 040847; Gulf of Fonseca, El Salvador ( $15^{\circ}57'N$ ,  $95^{\circ}32'W$ ), 33-73 m; type locality. Dimensions:  $H= 23.1$ ,  $W= 9.3$ . Remarks: Ex D. Shasky. Columbellidae.*merope*, *Columbarium* (*Peristarium*) [as n. sp.]

Bayer, 1971: 178.

1 paratype: DMNH 153518; R/V 'Gerda' station G-970, south of Marquesas Keys, Straits of Florida ( $24^{\circ}24'N$ ,  $82^{\circ}08'W$ ), 512 m. Dimensions:  $H= 23.3$ ,  $W= 6.1$ . Remarks: Ex Rosenstiel School of Marine and Atmospheric Sciences, University of Miami. Paratype illustrated by Harasewych (1983a: 34, fig. 54). Columbariidae [Turbinellidae].*meyeri*, *Conus biliosus* [as n. ssp.]

Walls, 1979b: 3.

Holotype: DMNH 122117; Genezzano, Natal, South Africa. Dimensions:  $H= 44.0$ ,  $W= 25.3$  ("24.6"). Remarks: The original description refers to a figure by Walls ("1978b" [error for 1979a]: 160, bottom). This is in error, the holotype was figured by Walls (1979a: 161, bottom left). Conidae.*michaeli*, *Ocinebra* [as n. sp.]

Ford, 1888: 188.

2 syntypes: DMNH 152945; Cayucos, San Luis Obispo County, California. Dimensions: (1)  $H= 14.3$ ,  $W= 7.3$ ; (2)  $H= 14.3$ ,  $W= 7.1$ . Remarks: Ex W. E. Webb, via N. W. Lermond. Muricidae.*nanus*, *Strombus raninus* [as n. ssp.]

Bales, 1942: 19.

5 paratypes: DMNH 001490; southern end of Lake Worth, Palm Beach County, Florida; type locality. Dimensions: (1) H= 57.4, W= 38.0; (2) H= 52.7, W= 37.1; (3) H= 51.5, W= 38.7; (4) H= 51.0, W= 33.6; (5) H= 48.8, W= 33.9. Remarks: Original description lists types in ANSP, and further paratypes in "the Bales, McGinty and Koto collections." DMNH records do not indicate origin of material. Strombidae.

*nereis*, *Conus* [as n. sp.]

Petuch, 1979a: 18, figs. 32-33 (holotype).

Holotype: DMNH 126404; off Panglao, Bohol Island, Philippines, approximately 250 m. Dimensions: H= 22.8 ("23"), W= 12.3 ("12").

1 paratype: DMNH 126405; type locality. Dimensions: H= 14.7 ("14"), W= 7.1.

Conidae.

*nivosa*, *Ovirissoa* [as n. sp.]

Powell, 1957: 141.

3 paratypes: DMNH 106944; B.A.N.Z.A.R.E. station 83, off Lusitania Bay, Macquarie Island, 69 m; type locality. Dimensions: (1) H= 2.5, W= 1.4; (2) H= 2.3, W= 1.4; (3) H= 2.3, W= 1.3. Remarks: Ex A. W. Powell. Rissoidae.

*nodosivaricosa*, *Agatrix* (*Olssonella*) [as n. sp.]

Petuch, 1979a: 11, figs. 26, 27.

Holotype: DMNH 126397; off Balicasag, Bohol Island, Philippines, 300 m. Dimensions: H= 12.9 ("11"), W= 8.4 ("9"). Cancellariidae.

*orcuttii*, *Caecum* [as n. sp.]

Dall in Orcutt & Dall, 1885: 541.

2 syntypes: DMNH 161855; San Diego, California. Dimensions (greatest lengths): 2.1; 1.7. Remarks: Ex N. W. Lermond. Caecidae.

*parkinsoni*, *Terebra* [as n. sp.]

Cernohorsky & Bratcher, 1976: 137.

1 paratype: DMNH 112104; Nordup, East New Britain, Papua New Guinea; type locality. Dimensions: H= 28.1, W= 5.3. Terebridae.

*parvatus*, *Conus musicus* [as n. ssp.]

Walls, 1979b: 4.

Holotype: DMNH 122118; Natal, South Africa. Dimensions: H=

21.5 ("21.4"), W= 13.0. Remarks: The original description refers to figures by Walls ("1978b" [error for 1979a]: 485 bottom left, 752) which are not of the holotype specimen. Ex DMNH 017449.

6 paratypes: DMNH 133931; type locality. Dimensions: H= 21.9; 21.7; 19.6; 18.9, 18.2; 17.4. Remarks: The original description refers to figures by Walls ("1978b" [error for 1979a]: 485, bottom left; 752) which are not of these specimens. Ex DMNH 017449.

Conidae.

*patae*, *Conus* [as n. sp.]

Abbott, 1971: 49, fig. 1 (holotype), figs. 4-5 (paratypes DMNH 040595), fig. 6 (paratype DMNH 044095).

Holotype: DMNH 044097; off Pompano Beach, Broward County, Florida, 10 fathoms [18.3 m]. Dimensions: H= 24.4, W= 14.1 ("13.8"). Remarks: Holotype also figured by Walls (1979a: 524, upper left).

1 paratype: DMNH 044096; type locality. Dimensions: H= 23.9, W= 14.4.

3 [2] paratypes: DMNH 040595; 0.5 miles off Lauderdale-by-the-Sea, Florida, 50-100 feet [15.2-30.4 m]. Dimensions: (1) H= 25.2 ("25.0"), W= 14.5 ("14.2"); (2) H= 24.7 ("24.5"), W= 13.6. Remarks: Original description cites three paratypes under this lot number. Only two were originally catalogued. The smaller one was figured by Walls (1979a: 524, upper right).

2 [1] paratypes: DMNH 044095; Ocho Rios, north central coast of Jamaica. Dimensions: H= 24.0, W= 13.3 ("13.0"). Remarks: The original description cites two paratypes under this lot number. Both were entered into the museum's catalog, but only one specimen remains in the lot. It is not the shell figured by Walls (1979a: 524, bottom).

Conidae.

*perplicata*, *Voluta* [as n. sp.]

Hedley, 1902: 309.

1 syntype: DMNH 062301; "taken . . . either on the neighbouring reefs of the Great Barrier, or on one of the atolls of the Coral Sea." Dimensions: H= 59.5, W= 28.7. Remarks: Ex Australian Museum, Sydney, no. C.9679. Hedley mentioned three specimens and did not select one as holotype. Weaver & duPont's (1970: 96) erroneous reference to a "holotype" does

not qualify as lectotype designation (ICZN Art. 74[b]).

*philippinensis*, *Axymene* [as n. sp.]

Petuch, 1979a: 8, figs. 14, 15.

Holotype: DMNH 126394; off Panglao, Bohol Island, Philippines, 250 m. Dimensions: H= 15.0 ("16"), 7.7 ("8"). Muricidae.

*pseudanaloga*, *Puncturella* [as n. sp.]

Powell, 1957: 140.

2 paratypes: DMNH 022463; off Macquarie Island, Sub-Antarctica, 69 m; apparently from type locality. Dimensions [height from aperture, greatest shell length]: (1) 6.3, 10.5; (2) 5.8, 9.3; both with dried animals. Remarks: Ex J. E. du Pont.

3 paratypes: DMNH 106910; B.A.N.Z.A.R.E. station 83, off Lusitania Bay, Macquarie Island, Sub-Antarctica; type locality. Dimensions [height from aperture, greatest shell diameter]: (1) 7.5, 11.5; (2) 5.3, 9.4; (3) 5.1, 9.1; all with dried animals. Remarks: Ex A. W. Powell.

Fissurellidae.

*queenslandica*, *Leucosyrinx* [as n. sp.]

Powell, 1969: 338.

2 paratypes: DMNH 026584; off Cape Moreton, Queensland, Australia, in 100 fathoms [183 m]; type locality. Dimensions: (1) H= 48.5, W= 15.0; (2) H= 47.6, W= 13.3. Turridae.

*radwini*, *Pterynotus* (*Pterynotus*) [as n. sp.]

Harasewych & Jensen, 1979: 11, figs. 10, 18 (radula).

Holotype: DMNH 122424; R/V "Pillsbury" station P-610, east of Turneffe Islands, Belize, 296-329 m [17°2.0'N, 87°38.4'W]. Dimensions: H= 30.9. Muricidae.

*randalli*, *Cymbiola* [as n. sp.]

Stokes, 1961: [3].

1 paratype; DMNH 010136; 3 miles from Undine Reef, North Queensland, Australia; type locality. Dimensions: H= 39.1, W= 20.3. Remarks: Ex A. J. Stokes, via C. Weaver. DMNH paratype figured by Weaver & duPont (1970: pl. 41 fig. C). Volutidae.

*reductaspiralis*, *Conus nielsenae* [as n. ssp.]

Walls, 1979b: 5, fig. p. 5.

Holotype: DMNH 122119; Geraldton, Western Australia. Dimensions: H= 33.3 ("33.4"), W= 18.3. Remarks: The original description refers to figures in Walls ("1978b" [error for

1979a]: 496, bottom right; 762) which are not of the holotype specimen.

Conidae.

*rejecta*, *Oliva* [as n. sp.]

J. Q. Burch & R. L. Burch, 1962: 166.

1 paratype: DMNH 005398; tide flats at La Paz, Baja California, Mexico; type locality. Dimensions: H= 37.6, W= 16.3. Olividae.

*riosi*, *Adelomelon (Weaveria)* [as n. sp.]

Clench & Turner, 1964: 162.

1 paratype: DMNH 010767; about 150 miles E.S.E. of Cabo San Antonio, Argentina (36°40'S, 53°08'W [54°08'W?]), 95 fathoms [174 m]. Dimensions: H= 231.0, W= 103.0. Remarks: This is not the specimen illustrated under this DMNH number by Weaver & duPont (1970: pl. 44, figs. C-D). Volutidae.

*rosselli*, *Zoila* [as n. sp.]

Cotton, 1948: 30.

1 paratype: DMNH 005403; beach near North Wharf, Fremantle, Western Australia. Dimensions: greatest length= 54.5, width= 34.4. Remarks: Ex Rossell via C. Weaver. Cypraeidae.

*rubra*, *Alcyna* [as n. sp.]

Pease, 1860: 436.

2 syntypes: DMNH 022968; Sandwich Islands [Hawaiian Islands]. Dimensions: (1) H= 2.8, W= 1.8; (2) H= 2.6, W= 1.7. Remarks: Ex ANSP 37834. Trochidae.

*salisburyi*, *Mitrolumna* [as n. sp.]

Cernohorsky, 1978: 66.

1 paratype: DMNH 112101; Maile Point, Oahu, Hawaiian Islands, 32 fathoms [58.6 m]; type locality. Dimensions: H= 4.0 ("3.9"), W= 1.9. Turridae.

*salisburyi*, *Vexillum (Pusia)* [as n. sp.]

Cernohorsky, 1976: 114.

3 paratypes: DMNH 112102; Pupukea beach, Oahu, Hawaiian Islands; type locality. Dimensions: (1) H= 5.0, W= 2.4; (2) H= 5.0, W= 2.3; (3) H= 4.8, W= 2.3. Mitridae [Costellariidae].

*sandwichensis*, *Conus suturalis* [as n. ssp.]

Walls, 1978: 3, figs. p. 7.

Holotype: DMNH 123126; Pokai Bay, Oahu, Hawaii. Dimensions: H= 14.4, W= 7.2 (juvenile).

Conidae.

*scalaroides*, *Rissoa* [as n. sp.]

C. B. Adams, 1850: 113.

7 paralectotypes: DMNH 135070; Jamaica; type locality. Dimensions: (1) H= 4.6, W= 2.0; (2) H= 4.6, W= 2.0; (3) H= 4.6, W= 1.9; (4) H= 4.5, W= 1.8; (5) H= 4.2, W= 2.0; (6) H= 3.6, W= 1.6; (7) fragment. Remarks: Ex J. D. Parker. Lectotype in Museum of Comparative Zoology (Cambridge, Massachusetts), number 177103, see Clench & Turner (1950: 340, pl. 33 fig. 6). Rissoidae.

*scotiana*, *Sinuber sculpta* [as n. ssp.]

Powell, 1951: 120.

2 paratypes: DMNH 106920; R/V 'Discovery II' station 167, off Signy Island, South Orkneys (60°50'30"S, 46°15'00"W), 244-344 m; type locality. Dimensions: (1) H= 9.1, W= 7.2; (2) H= 7.6, W= 6.5; both with dried animals. Remarks: Ex A. W. Powell. Naticidae.

*signeyana*, *Chlanidota* [as n. sp.]

Powell, 1951: 141.

1 paratype: DMNH 106917; R/V 'Discovery II' station 167, off Signy Island, South Orkneys (60°50'30"S, 46°15'00"W), 244-344 m; type locality. Dimensions: H= 28.6, W= 17.8. Remarks: Ex A. W. Powell. Buccinulidae [Buccinidae].

*smithi*, *Prodallia* [as n. sp.]

Bartsch, 1942: 11.

1 paratype: DMNH 015454; U.S. Bureau of Fisheries ('Albatross') station 5124, Maestre de Campo Island, 281 fathoms [514 m, off east coast of Mindoro, Philippines]. Dimensions: H= 51.0, W= 14.5. Remarks: Ex USNM 235394. Volutidae.

*steigeri*, *Daphnella* [as n. sp.]

McGinty, 1955: 76.

1 paratype: DMNH 119526; W.S.W. of John's Pass, Gulf Beaches, W. Florida, 35 fathoms [64 m]. Dimensions: H= 17.2, W= 7.1. Remarks: Ex D. Steger. Turridae.

*steigeri*, *Olivella* (*Olivella*) [as n. sp.]

Olsson, 1956: 176.

4 paratypes: DMNH 105286; S.W. of Egmont Key, Florida, 78-90 fathoms [143-165 m]. Dimensions: (1) H= 11.1, W= 5.0; (2) H= 10.3, W= 4.5, (3) H= 9.7, W= 4.9, (4) H= 9.5, W= 4.5. Remarks: Ex D. Steger. Olividae.

***steigeri*, *Terebra (Myurella) floridana* [as n. ssp.]**

Abbott, 1954: 39.

1 paratype: DMNH 105856; W.N.W. of Progresso, Mexico, 18 fathoms [32.9 m]. Dimensions: H= 78.4, W= 15.5. Remarks: Ex D. Steger. Terebridae.

***stilesti*, *Neptunea* [as n. sp.]**

A. G. Smith, 1968: 117.

1 paratype: DMNH 106558; between La Perouse Bank and Cape Scott, Vancouver Island, British Columbia, ca. 100 fathoms [183 m]; type locality. Dimensions: H= 80.0 (apex broken), W= 60.0. Remarks: Ex E. C. Stiles, via California Academy of Sciences and A. Smiley. Buccinidae.

***summersi*, *Bistolida (Blasicrura) pallidula* [as n. ssp.]**

Schilder, 1958: 85.

1 paratype: DMNH 121540; Nukalofa, Tonga-Tabu, Tonga; type locality. Dimensions: greatest length= 16.7, width= 9.4. Remarks: Ex J. M. Ostergaard, via R. Summers. Cypraeidae.

***teaguei*, *Olivancillaria* [as n. sp.]**

Klappenbach, 1964: 132.

1 paratype: DMNH 024729; La Coronilla, Department of Rocha, Republic of Uruguay. Dimensions: H= 18.9, W= 10.2. Remarks: Ex ANSP 290783. Olividae.

***textimattum*, *Epitonium (Asperiscala)* [as n. sp.]**

DuShane, 1977: 89.

1 paratype: DMNH 121769; Playa Los Angeles, Tenacatita Bay, Jalisco, Mexico (19°18'N, 104°50'W), 7-18 m; type locality. Dimensions: H= 10.9, W= 3.5. Epitonidae.

***thompsoni*, *Eudolium* [as n. sp.]**

McGinty, 1955: 80.

1 paratype: DMNH 105924; off Tampa, Florida, Gulf of Mexico [publication], approx. 125 miles SW Egmont Key, Florida [label]. Dimensions: H= 38.8 [apex missing], W= 27.2. Remarks: Ex D. Steger. Tonnidae.

***timor*, *Fulgurofusus (Peristarium)* [as n. sp.]**

Harasewych, 1983a: 34, fig. 49.

1 paratype: DMNH 153516; off North Carolina, deep water.  
Dimensions: H= 53.6, W= 12.4. Turbinellidae.

*tokyoensis*, *Rissoa* [as n. sp.]

Pilsbry, 1904: 26.

1 syntype: DMNH 136367; Tokyo Harbor, Japan. Dimensions:  
H= 2.2, W= 1.0. Remarks: "From type lot" ex Y. Hirase, via  
J. Parker [ANSP 70910]. Rissoidae.

*tribblei*, *Conus* [as n. sp.]

Walls, 1977: 2, figs. p. 3.

Holotype: DMNH 123125; China Sea, off Taiwan. Dimensions:  
H= 62.4 ("62.3"), W= 30.4.

Conidae.

*trujilloi*, *Oliva* [as n. sp.]

Clench, 1938: 111.

7 paratypes: DMNH 063513; Puerto Plata, Santo Domingo,  
dredged at about 5 fathoms [9.1 m]; type locality. Dimensions  
(heights): 41.6, 39.2, 38.7, 37.6, 36.5, 35.4, 31.8. Olividae.

*venustula*, *Pareuthria* [as n. sp.]

Powell, 1951: 134.

1 paratype: DMNH 106912; R/V 'Discovery II' station 388, between  
Cape Horn and Staten Island (56°19.5'S, 67°09'W), 121 m;  
type locality. Dimensions: H= 14.8, W= 6.5. Remarks: Ex  
A. W. Powell. Buccinulidae [Buccinidae].

*veracruzensis*, *Cerithidea pliculosa* [as n. ssp.]

Bequaert, 1942: 5.

1 paratype: DMNH 023859; Estero de Espantaperros, Isthmus of  
Tehuantepec, Mexico. Dimensions: H= 17.2, W= 7.5 [apex  
broken]. Remarks: Ex ANSP 178508 [= old number ANSP  
124569, as cited in original publication]. Potamididae  
[Cerithideidae].

*vernicosum*, *Mangilia (Calliotectum)* [as n. sp.]

Dall, 1889: 304.

1 syntype: DMNH 010135; U.S. Fish Commission ('Albatross')  
station 2807, near the Galapagos Islands, Pacific, 812 fathoms  
[1486 m]. Dimensions: H= 47.0, W= 18.7. Remarks: Ex C.  
Weaver. Pleurotomidae [Turridae].

*vina*, *Assiminea succinea* [as n. ssp.]

*Marcus, Eveline & Ernst Marcus, 1965: 51.*

31 syntypes: DMNH 033740; Cananéia, Brazil (25°01'S, 47°50'W).

Dimensions: heights from 1.2 to 1.7 mm. Remarks: Original description is based on "a great number" of specimens. Assimineidae.

*weaveri, Turridrupa* [as n. sp.]

Powell, 1967: 423.

1 paratype: DMNH 010143; Mokumanu Island, north shore of Oahu, Hawaiian Islands, 65-70 feet [19.8-21.3 m]. Dimensions: H= 17.6, W= 7.1. Turridae.

*wittigi, Conus* [as n. sp.]

Walls, 1977: 1, figs. p. 3.

Holotype: DMNH 123129; Lesser Sunda Islands north of Timor ["Straits of Flores" according to specimen label]. Dimensions: H= 31.7 ("31.8"), W= 15.7.

Conidae.

*wolfei, Vexillum (Costellaria)* [as n. sp.]

Cernohorsky, 1978: 63.

1 paratype: DMNH 112103; Pokai Bay, Oahu Island, Hawaiian Islands, 60-70 fathoms [110-128 m]; type locality. Dimensions: H= 5.9 ("6.0"), W= 2.3 ("2.2"). Mitridae [Costellariidae].

*wormaldi, Columbarium (Coluzea)* [as n. sp.]

Powell, 1971: 221.

1 paratype: DMNH 026797; Aldermen Island, northern New Zealand, 350 fathoms [640.5 m]. Dimensions: H= 82.3, W= 28.5. Remarks: Localities given in description: East of Poor Knights Islands, 549 m (holotype), and 23 miles NE of Cuvier Island, 260-270 fathoms [476-494 m]. Columbariidae [Turbinellidae].

*xenismatis, Fulgurofusus (Histicosceptrum)* [as n. sp.]

Harasewych, 1983a: 26, fig. 36.

1 paratype: DMNH 153523; R/V 'Pillsbury' station P-1354, off northeastern Nicaragua (14°21'N, 81°55'W), 192-263 m; type locality. Dimensions: H= 32.4 ("33"), W= 12.4. Turbinellidae.

*zebrina, Zediloma (Fractarmilla) corrosa* [as n. ssp.]

Powell, 1946: 137.

3 paratypes: DMNH 022483; Beach Harbour, Breaksea Sound,

Fiordland, W. Otago, New Zealand; type locality. Dimensions: (1) H= 11.0, W= 12.7; (2) H= 11.0, W= 12.5, (3) H= 10.3, W= 12.2. Remarks: Ex J. E. du Pont.

3 paratypes: DMNH 027487; type locality. Dimensions: (1) H= 12.2, W= 12.5, (2) H= 11.3, W= 12.5, (3) H= 11.0, W= 12.5. Remarks: Ex J. H. Alexander.

Trochidae.

***zulu*, *Conus* [as n. sp.]**

Petuch, 1979a: 19, figs. 28-29 (holotype), figs. 30-31 (paratypes DMNH 126407).

Holotype: DMNH 126406; off the mouth of the Umfolozi River, Zululand coast, Natal, South Africa, approximately 40 m. Dimensions: H= 62.3 ("62"), W= 37.0 ("35").

4 [3+2] paratypes: DMNH 126407; type locality. Dimensions: (1) H= 57.3, W= 33.9 [figured]; (2) H= 61.6, W= 35.6; (3) H= 57.2, W= 30.8. Remarks: The original description cites four paratypes in DMNH 126407 ("Lengths 58 mm, 62 mm, 65 mm, 68 mm"). The lot contains five specimens: three of them bearing the lot number (listed above), and two smaller, unnumbered ones (H= 56.4, W= 33.1; H= 56.2, W= 30.9) of dubious status.

1 paratype: DMNH 126408; off Inhaca Island, Mozambique, 35 m. Dimensions: H= 66.3 ("74" [sic]), W= 39.5.

Conidae.

**SUBCLASS OPISTHOBRANCHIA**

***eloiseae*, *Acteon* [as n. sp.]**

Abbott, 1973: 91, figs. 1-3 (holotype).

Holotype: DMNH 027213; Al Masirah Island, Oman Protectorate, southeast Arabia. Dimensions: H= 30.9 ("31.0"), W= 20.0 ("19.5"). Remarks: With operculum.

2 paratypes: DMNH 067746; type locality. Dimensions: (1) H= 34.5, W= 22.2; (2) H= 31.0, W= 19.5.

Acteonidae.

***maunganica*, *Austrodiaphana* [as n. sp.]**

Powell, 1952: 185.

10 paratypes: DMNH 022727; *ex pisce*, 2.5 miles north of Mount Maunganui, Bay of Plenty, New Zealand; type locality. Dimensions: lengths ranging 1.17-1.92. Remarks: Ex J. E. duPont.

9 paratypes: DMNH 027082; type locality. Dimensions: lengths ranging 1.33-1.67. Remarks: Ex G. Williams.

19 paratypes: DMNH 027428; type locality. Dimensions: lengths ranging 1.08-1.75. Remarks: Ex J. H. Alexander. One *Atys*-like shell removed from this lot.

Austrodiaphanidae [Diaphanidae].

*tenerum*, *Parvaplustrum* [as n. sp.]

Powell, 1951: 180.

6 paratypes: DMNH 106916; R/V 'Discovery II' station WS-219, north-west of Falkland Islands (47°06'S, 62°12'W), 114-116 m; type locality. Dimensions: lengths= 2.92, 2.83, 2.75, 2.67, 2.50, 2.17. Remarks: Ex A. W. Powell. All specimens with dried animals. Aplustridae [Hydatinidae].

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*crakei*, *Duplicaria (Duplicaria)*, Terebridae  
*maryleeae*, *Hastula (Hastula)*, Terebridae

**Burch, J. Q. & R. L. Burch***rejecta*, *Oliva*, Olividae**Burch, R. L.** (see under Burch, J. Q.)**Burgess, C. M.***mauiensis*, *Cypraea*, Cypraeidae**Campbell, G. B.** (see under Shasky, D. R.)**Cardin, C. & J. G. Walls***lenoreae*, *Phenacovolva* (*Subsimnia*), Ovulidae**Cate, C. N.***lahainaensis*, *Volva* (*Phenacovolva*), Ovulidae**Cernohorsky, W. O.***adamsianum*, *Vexillum* (*Costellaria*), Costellariidae*crosmieri*, *Cancilla scrobiculata*, Mitridae*salisburyi*, *Mitrolumna*, Turridae*salisburyi*, *Vexillum* (*Pusia*), Mitridae [Costellariidae]*wolfei*, *Vexillum* (*Costellaria*), Mitridae [Costellariidae]**Cernohorsky, W. O. & T. Bratcher***parkinsoni*, *Terebra*, Terebridae**Clench, W. J.***finlayi*, *Murex* (*Murex*), Muricidae*haysae*, *Thais floridana*, Muricidae*trujilloi*, *Oliva*, Olividae**Clench, W. J. & R. D. Turner***johnstonei*, *Melongena corona*, Melongenidae [Buccinidae]*langi*, *Thais* (*Thaisella*), Muricidae*riosi*, *Adelomelon* (*Weaveria*), Volutidae**Cotton, B. C.***rosselli*, *Zoila*, Cypraeidae**Dall, W. H.***atkana*, *Littorina sitkana*, Littorinidae*major*, *Buccinum pemphigus*, Buccinidae*vernicosum*, *Mangilia* (*Calliotectum*), Pleurotomidae [Turridae]**Dall, W. H. in C. R. Orcutt & W. H. Dall***orcutti*, *Caecum*, Caecidae**D'Attilio, A.** (see under Emerson, W. K.)

**DuShane, H.**

*textimattum*, *Epitonium (Asperiscala)*, Epitonidae

**Emerson, W. K. & A. D'Attilio**

*dalli*, *Latiaxis (Babelomurex)*, Coralliophilidae [Muricidae]

**Finlay, C. J. (see under Abbott, R. T.)****Finlay, H. J.**

*cuvierensis*, *Microvoluta*, Volutomitridae

**Ford, J.**

*blanesi*, *Olivella*, Olividae

*gaylordi*, *Olivella gracilis*, Olividae

*greggori*, *Cypraea cruenta*, Cypraeidae

*michaeli*, *Ocinebra*, Muricidae

**Harasewych, M. G.**

*ecphoroides*, *Fulgurofusus (Fulgurofusus)*, Turbinellidae

*germonae*, *Tractolira*, Volutidae

*harrisae*, *Columbarium*, Turbinellidae

*timor*, *Fulgurofusus (Peristarium)*, Turbinellidae

*xenismatis*, *Fulgurofusus (Histricosceptrum)*, Turbinellidae

**Harasewych, M. G. & R. H. Jensen**

*guesti*, *Natica (Natica)*, Naticidae

*guesti*, *Pterynotus (Pterynotus)*, Muricidae

*lightbourni*, *Pterynotus (Pterynotus)*, Muricidae

*radwini*, *Pterynotus (Pterynotus)*, Muricidae

**Hedley, C.**

*perplicata*, *Voluta*, Volutidae

**Hoerle, R. C.**

*finlayi*, *Neritopsis*, Neritopsidae

**Howard, F. B.**

*aureola*, *Pyrene*, Columbellidae

**Hutton, F. W.**

*corticata*, *Acmaea*, Acmaeidae

**Iredale, T.**

*kellneri*, *Aulica*, Volutidae

**Jensen, R. H. (see under Harasewych, M. G.)**

**Keen, A. M.**

*fayae*, *Anachis* (?*Costanachis*), Columbellidae

**Klappenbach, 1964: 132.**

*teaguei*, *Olivancillaria*, Olividae.

**Lewis, H.** (see also under Abbott, R. T.)

*burgessi*, *Distorsio*, Cymatiidae [Ranellidae]

*habei*, *Distorsio constricta*, Cymatiidae [Ranellidae]

**Lyons, W. G.**

*barbarae*, *Brachycythara*, Turridae

*girardi*, *Cerodrillia*, Turridae

*inglei*, *Oceanida*, Eulimidae

**Marcus, Ernst** (see under Marcus, Eveline)**Marcus, Eveline & Ernst Marcus**

*vina*, *Assiminea succinea*, Assimineidae

**McGinty, T. L.** (see also under Olsson, A. A.)

*stegeri*, *Daphnella*, Turridae

*thompsoni*, *Eudolium*, Tonnidae

**Mitchell-Tapping, H. J.**

*donmoorei*, *Caecum*, Caecidae

**Oliver, W. R. B.**

*kermadecensis*, *Haurakia*, Rissoidae

**Olsson, A. A.**

*stegeri*, *Olivella* (*Olivella*), Olividae

**Olsson, A. A. & T. L. McGinty**

*elegans*, *Vitrinella* (*Striovitrinella*), Vitrinellidae

*marmosa*, *Olivella minuta*, Olividae

**Pease, W. H.**

*dispar*, *Neritina*, Neritidae

*rubra*, *Alcyona*, Trochidae

**Peile, A. J.**

*bermudensis*, *Rissoina*, Rissoidae

**Petit, R. E.** (see also under Roth, B.)

*darwini*, *Cancellaria*, Cancellariidae

**Petuch, E. J.**

*abrolhosensis*, *Acmaea* (*Collisella*), Patellidae [Acmaeidae]  
*aphrodite*, *Conus*, Conidae  
*baileyi*, *Oliva*, Olividae  
*boholensis*, *Conus*, Conidae  
*eccentricus*, *Zelippistes*, Trichotropidae [Capulidae]  
*echinophilus*, *Africonus*, Conidae  
*exquisita*, *Pseudocypraea*, Ovulidae  
*fragilissimus*, *Conus*, Conidae  
*kaicherae*, *Vexillum* (*Costellaria*), Costellariidae  
*kurzi*, *Guildfordia*, Turbinidae  
*kurzi*, *Morum* (*Oniscidia*), Cassidae [Harpidae]  
*lightbourni*, *Conus* (*Floraconus*), Conidae  
*nereis*, *Conus*, Conidae  
*nodosivaricosa*, *Agatrix* (*Olssonella*), Cancellariidae  
*philippinensis*, *Axymene*, Muricidae  
*zulu*, *Conus*, Conidae

**Pilsbry, H. A.**

*dalliana*, *Acmaea*, Acmaeidae  
*floridana*, *Stenacme*, Stenacmidae [Epitonidae]  
*tokyoensis*, *Rissoa*, Rissoidae

**Powell, A. W. B.**

*ahiparana*, *Turritella* (*Zeacolpus*), Turritellidae  
*bouvetia*, *Margarella*, Trochidae  
*delli*, *Penion benthicola*, Buccinidae  
*kingae*, *Xenoturris*, Turridae  
*macquariensis*, *Trophon*, Muricidae  
*mauganuica*, *Austrodiaphana*, Austrodiaphanidae [Diaphanidae]  
*nivosa*, *Ovirissoa*, Rissoidae  
*pseudanalogia*, *Puncturella*, Fissurellidae  
*queenslandica*, *Leucosyrinx*, Turridae  
*scotiana*, *Sinuber sculpta*, Naticidae  
*signeyana*, *Chlanidota*, Buccinulidae [Buccinidae]  
*tenerum*, *Parvaplustrum*, Aplustridae [Hydatinidae]  
*venustula*, *Pareuthria*, Buccinulidae [Buccinidae]  
*weaveri*, *Turridrupa*, Turridae  
*wormaldi*, *Columbarium* (*Coluzea*), Columbariidae [Turbinellidae]  
*zebrina*, *Zediloma* (*Fractarmilla*) *corrosa*, Trochidae

**Rehder, H. A.**

*barnardi*, *Fusivoluta*, Volutidae  
*boswellae*, *Volutocoris*, Volutidae  
*clarkei*, *Fusivoluta*, Volutidae  
*disparilis*, *Volutocoris*, Volutidae  
*floridanus*, *Microdochus*, Rissoidae [Elachisiniidae]  
*gracilior*, *Benthovoluta*, Volutidae [Turbinellidae]

**Roth, B. & R. E. Petit**

*masirana*, *Persicula*, Marginellidae

**Schilder, F. A.**

*summersi*, *Bistolida (Blasicrura) pallidula*, Cypraeidae

**Schilder, F. A. & R. Summers**

*hesperina*, *Blasicrura coxeni*, Cypraeidae

**Schwengel, J. S.**

*koto*, *Lamellaria*, Lamellariidae  
*mcgintyi*, *Eubela*, Turridae

**Shasky, D. R.**

*berryi*, *Anachis*, Columbellidae  
*macleani*, *Coralliophila*, Coralliophilidae [Muricidae]  
*mazatlanica*, *Ruthia*, Columbellidae  
*mendozana*, *Strombina (Cotonopsis)*, Columbellidae

**Shasky, D. R. & G. B. Campbell**

*macleani*, *Calliostoma*, Trochidae

**Smith, A. G.**

*stilei*, *Neptunea*, Buccinidae

**Smith, E. A.**

*huttonii*, *Trochus (Cantharidus)*, Trochidae

**Snyder, M. A.**

*lightbourni*, *Fusinus*, Fasciolariidae [Buccinidae]  
*martini*, *Latirus*, Fasciolariidae [Buccinidae]

**Stokes, A. J.**

*randalli*, *Cymbiola*, Volutidae

**Summers, R.** (see under Schilder, F. A.)**Suter, H.**

*lyalliana*, *Rissoia (Alvania) plicata*, Rissoidae

**Test, A. R.***cona*, *Acmaea*, Acmaeidae**Tippett, D. L.***brasiliiana*, *Borsonia*, Turridae**Turner, R. D.** (see under Clench, W. J.)**Vanatta, E. G.***amosi*, *Metula*, Buccinidae**Walls, J. G.** (see also under Cardin, J.)*axelrodi*, *Conus*, Conidae*cloveri*, *Conus*, Conidae*kerstitchi*, *Conus*, Conidae*meyeri*, *Conus biliosus*, Conidae*parvatus*, *Conus musicus*, Conidae*reductaspiralis*, *Conus nielsena*e, Conidae*sandwichensis*, *Conus suturalis*, Conidae*tribblei*, *Conus*, Conidae*wittigi*, *Conus*, Conidae**Weaver, C. S.***cloveriana*, *Lyria*, Volutidae*daisyae*, *Volutoconus hargreavesi*, Volutidae*dampieria*, *Amoria* (*Amoria*), Volutidae*duponti*, *Festilyria*, Volutidae

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